



2882/14

PATENT APPLICATION

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Attorney Docket No.: 106539

AMENDMENT TRANSMITTAL

In re the Application of

Michael NAHUM et al.

Group Art Unit: 2882

Application No.: 09/731,671

Examiner: C. Kao

Filed: December 8, 2000

For: SYSTEMS AND METHODS FOR HIGH-ACCURACY DISPLACEMENT DETERMINATION IN A CORRELATION BASED POSITION TRANSDUCER

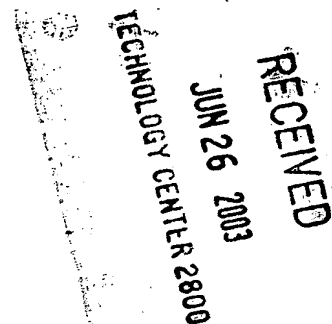
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

Transmitted herewith is an Amendment in the above-identified application.

- ☐ Entitlement to small entity status is hereby asserted.
☐ Small entity status of this application has been established.

The filing fee has been calculated as shown below:



| | (Column 1) | (Column 2) | (Column 3) | SMALL ENTITY | | | OTHER THAN A SMALL ENTITY | |
|--|----------------------------------|---------------------------------|---------------|--------------|-----------|----|---------------------------|-----------|
| | CLAIMS REMAINING AFTER AMENDMENT | HIGHEST NO. PREVIOUSLY PAID FOR | PRESENT EXTRA | RATE | ADD'L FEE | OR | RATE | ADD'L FEE |
| TOTAL CLAIMS | *58 MINUS | **43 | =15 | x 9 | \$ | | x 18 | \$ 270 |
| INDEP CLAIMS | *10 MINUS | ***4 | =6 | x 42 | \$ | | x 84 | \$ 504 |
| <input type="checkbox"/> FIRST PRESENTATION OF MULTIPLE DEP. CLAIM | | | | + 140 | \$ | OR | +280 | \$ |
| | | | | | \$ | | | \$ 774 |

- * If the entry in Column 1 is less than the entry in Column 2, write "0" in Column 3.
** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 20, write "20" in this space.
*** If the "Highest Number Previously Paid For" IN THIS SPACE is less than 3, write "3" in this space.
The "Highest Number Previously Paid For" in this space (Total or Independent) is the highest number found from the equivalent box in Column 1 of a prior Amendment or the number of claims originally filed.
☒ Check No. 143495 in the amount of \$774.00 is attached. The Commissioner is hereby authorized to charge any other fees that may be required to complete this filing, or to credit any overpayment, to Deposit Account No. 15-0461. Two duplicate copies of this sheet are attached.

Respectfully submitted,

James A. Oliff
Registration No. 27,075

Gang Luo
Registration No. 50,559

JAO:GXL/ale

Date: June 24, 2003



#11/Election
w/ Amended a
10/16/03
PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of

Michael NAHUM et al.

Group Art Unit: 2882

Application No.: 09/731,671

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For: SYSTEMS AND METHODS FOR HIGH-ACCURACY DISPLACEMENT
DETERMINATION IN A CORRELATION BASED POSITION TRANSDUCER

PRELIMINARY AMENDMENT AND RESPONSE TO RESTRICTION REQUIREMENT

Director of the U.S. Patent and Trademark Office
Washington, D. C. 20231

Sir:

In reply to the March 26, 2003 Restriction Requirement and prior to initial
examination, please amend the above-identified application as follows:

IN THE CLAIMS:

Please add new claims 44-58 as follows:

A1
--44. An image-correlation optical position determining system, usable to estimate a
displacement of a second image acquired by a sensing device relative to a first image
acquired by the sensing device, the system comprising a signal generating and processing
circuitry element that:

determines a set of correlation function value points indicative of a correlation
function extremum, each correlation function value point based at least partially on a pattern
of image values included in both the first image and the second image, each correlation
function value point further based on a respective known spatial translation of the image
values in the second image relative to the image values in the first image; and

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01 FC:1202
02 FC:1201

270.00 OP
504.00 OP